

Location: KANKAKEE IL S&E Proj. No.: 04.0486 AFE No.: F01954 Drawing No.: 31231V12 Vendor: Safetran Systems Corp.

Store No.: 06976 P.O. Number: Date Required: Date Shipped:

Qty.	Class-Item-CD	UI	Price per Item	Total Price	Item Description	Quantity Shipped	Quantity Installed Date Quan.	Date Quan.	Date Quan.	Quantity Returned (Credit)	Special Instructions
2	670-090450-4	EA	\$49.62	\$99.25	CONNECTOR, WELDED FAR RAIL HARMON A1000-2W						
2	670-486646-4	EA	\$40.66	\$81.32	CONNECTOR, WELDED NEAR RAIL HARMON A1000-1W						
2	670-794453-4	EA	\$854.30	\$1,708.61	COUNTERWEIGHT PKAGE, 25-31 GATE STAN S- MECH ONLY, STAINLESS TO INCLUDE HUB, SUPPORT ARMS						
1	670-986650-4	EA	\$361.26	\$361.26	DISPOSAL, CONSTRUCTION DEBRIS AND CLEANING XING EQUIPMENT CONTAINER						
6	670-000003-4	EA	\$255.85	\$1,535.10	FILLSTONE #57, QUANTITY IS BASED ON TRUCK LOAD PLUS DELIVERY COST						
2	670-015231-4	EA	\$381.69	\$763.37	FOUNDATION, DIXIE, S-2 GATE 56" ASSEMBLED						
1	670-921451-4	EA	\$39.86	\$39.86	INDUCTOR, SIMULATED TRACK SAFETRAN 8V617-0200						
1	670-477991-4	EA	\$292.81	\$292.81	KIT, GROUNDING ASSY FOR AL I/S INCLUDES 8 GRD RDS, 200#4 WIRE, 12 4 WIRE ONE-SHOTS, ERICO SBK206						
1	670-123298-4	EA	\$256.93	\$256.93	KIT, HARDWARE SUPPLIES REQUIRED XING PKAGES, WEB CONNECTORS FOR SHUNT(8EA) TAPE, 100 EA AMPS, P/GUM PAINT, SLEEVES, TAGS, GLUE, WHITE TAGS, JNE CAN BLUE MARKING PAINT ETC...						
1	670-745798-4	EA	\$490.26	\$490.26	LAMP ASSY, 4" GRD, MAST MTG, 1W IND, 20" BKGRD, FLX-12						
2	670-764166-4	EA	\$907.09	\$1,814.18	LAMP ASSY, 5" MAST MTG, 2W IND, 20" BKGRD, FLX-12 W/BULB STRAN #042003-487XNS						
6	165-643547-4	EA	\$8.43	\$50.60	LAMP, 18 WATT 10 VOLT S-11 SC BAY 18S11/1/SC CLEAR R/WY SIGNAL UL-71463 GE						
2	670-440826-4	EA	\$1.01	\$2.03	LINK, SAFETRAN 024620-1X INSL TESTING COMP 1 IN CENTER SIGNAL CIRCUITS CR 02-286662						
4	255-590880-4	EA	\$15.62	\$62.47	LOCK, AMERICAN LOCK MODEL H-10KA KEYED ALIKE TO PRIVATE KEYWAY D456 AND STAMPED "NS SIG"						

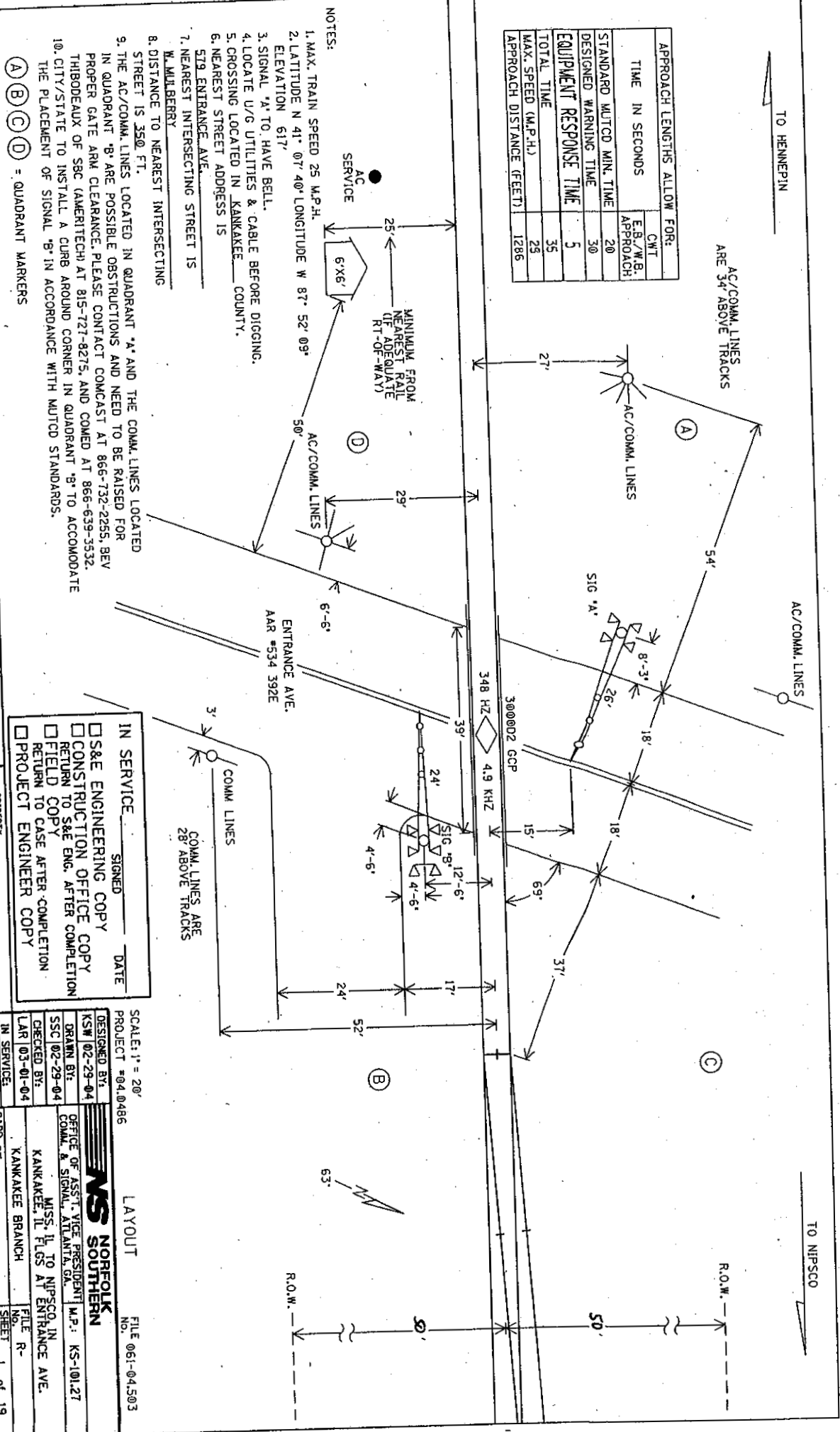
APPROVED BY STATE APPROVED BY RAILROAD CAR NUMBER SEAL NUMBER

Qty.	Class-Item-CD	UI	Price per Item	Total Price	Item Description	Quantity Shipped	Quantity Installed			Quantity Returned (Credit)	Special Instructions
1	670-001157-4	EA	\$1,029.86	\$1,029.86	MAST, 5" ALUMINUM (0690) RIGHT FOR LIGHT UNIT & BRACKET 1510" HARMON @250550-008, SERRMI A6071						
1	670-637778-4	EA	\$1,055.55	\$1,055.55	MAST, 5" ALUMINUM 1310" WITH DOUBLE JCT. BOX BASE, STRAN P# 070519-11AX.						
1	670-000985-4	EA	\$182.36	\$182.36	MAST, SIDELIGHT BRACKET F/5"MT. HARMON @225834-XXX, SAFETTRAN 041442-26X,						
2	670-521147-4	EA	\$2,932.81	\$5,865.62	MECHANISM, GATE MODEL S40, WITH CONTACT HEATER, COMPLETE W/RELAY STRAN # 074000-W00090						
4	670-001347-4	EA	\$57.98	\$231.90	PACKAGE, HARDWARE SIGN 5 IN. MOUNTING, SERRMI A1250-5, HARMON @200965-000, OR						
1	255-646807-4	EA	\$9.49	\$9.49	PADLOCK, SAFETTRAN PART NO. 030399-29X SCREW TYPE FOR CIR CONTROLLER AND BTY. BOX						
1	670-514605-4	EA	\$8.43	\$8.43	PINNACLE, W-C SECT 1-11, 4"X 5" REF K1 110-8 OR SAFETTRAN NO. @035045-503X						
1	670-555609-4	EA	\$41.11	\$41.11	PLUGBOARD, TYPE B-1 GRS A62-506 OR HARMON @7062-506 OR						
1	165-902002-4	EA	\$308.00	\$308.00	PROTECTOR, SURGE 120/240VAC, ERICO P/N EPD120/240TDFL						
7	465-002899-4	EA	\$20.88	\$146.14	REEL, CABLE DISPOSABLE FOR CROSSING SIGNAL PACKAGES						
1	670-742086-4	EA	\$38.50	\$38.50	RELAY INTERFACE PROBE, ULTRATECH PN 16031-00						
1	670-707995-4	EA	\$356.29	\$356.29	RELAY, TYPE B1, NEV LINE, 900 OHMS, .008 AMPERES GRS A62-308 OR SAFETTRAN @400003						
1	670-391911-4	EA	\$5,329.57	\$5,329.57	SEARII AUTOMATED INSPECTOR SYSTEM KIT, w/ 1- IL0D, 1-BSX, 2-GTS, 2-MTSS, 1-GFT, 1-VHFC, 2-RECORDER INTERFACE MODULE, 1-ECHELON CONNECTOR						
1	670-261280-4	EA	\$7,006.00	\$7,006.00	SHELTER BARE 6X6, ALUMN, FARADAY, W/CABLE CHUTES BEHIND TERMINAL BOARD, W/GEN. CONN. W/ADJUSTABLE PIERS, SAFETTRAN P/N 058400-66-78A						

Qty.	Class-Item-CD	UI	Price per Item	Total Price	Item Description	Quantity Shipped	Quantity Installed				Quantity Returned (Credit)	Special Instructions
2	670-586967-4	EA	\$34.74	\$69.49	SHUNT COVER W/LAG SCREWS, 19"X19", SERMI #40271, ORDER 1 PER SHUNT							
2	670-652773-4	EA	\$470.56	\$941.12	SHUNT, MULTI-FREQ. #62775-1543 SAFETRAN NARROW BAND							
2	670-806648-4	EA	\$56.42	\$112.84	SIGN, X-BUCK, LESS HARDWARE, SAFETRAN 035200-X CR 02-490546							
2	670-751511-4	EA	\$35.58	\$71.17	SIGN, "I" TRACK, LESS HARDWARE SAFETRAN# 035207-1X							
2	670-006438-4	EA	\$10.54	\$21.08	TAPE, 4" X 96" REFLECTIVE APPLY TO BACK OF X-BUCK SIGN, ONLY IN IA., IN., IL., AL. 035200-555X							
2	670-330382-4	RL	\$10.75	\$21.49	TAPE, THOR 3" DURATEC, ORANGE 1000' LENGTHS, "WARNING STOP DIGGING"							
5	670-478560-4	EA	\$19.47	\$97.35	TERMINAL BLOCK, ERICO 4 POST P/N B2700A2C1WH W/HARDWARE LESS LIGHTNING ARRESTOR							
1	165-917984-4	EA	\$4.22	\$4.22	TERMINAL, TEST, TYPE B GRS A62-515 OR HARMON @32118-001 OR							
1	610-065626-4	EA	\$16.66	\$16.67	ULTRA-TECH 15206-01 CONNECTIVITY BLOCK FOR GRS B1 RELAY							
1	670-007238-4	EA	\$137.14	\$137.14	UNIT, THE INSTALLATION AND WIRING OF A DEVICE WHICH REQUIRE A MINIMUM OF FOUR WIRE CONNECT-							
1	670-258957-4	EA	\$25,580.50	\$25,580.50	WIRED RACK, 6X6 FARADAY, 20AMP SINGLE TRK SSCCIIIA, GCP3000D2, 2 CRAGG CHARGER, 2 RELAY RACKS, SAFETAN P/N 20A 1TRK, USE WITH I/S 670-281280-4 W/CABLE CHUTES BEHIND THE FARADAY SHIELD							
1	450-986008-4	EA	\$7.35	\$7.35	WRENCH, TEST POST TYPE B DWG 55393-3, GR.1							

Total Material \$67,525.61

APPROACH LENGTHS ALLOW FOR:		
TIME IN SECONDS	CWT	E.B./W.B. APPROACH
STANDARD MUTCO MIN. TIME	20	20
DESIGNED WARNING TIME	30	30
EQUIPMENT RESPONSE TIME	5	5
TOTAL TIME	35	35
MAX. SPEED (M.P.H.)	25	25
APPROACH DISTANCE (FEET)	1286	1286



NOTES:

1. MAX. TRAIN SPEED 25 M.P.H.
2. LATITUDE N 41° 07' 40" LONGITUDE W 87° 52' 09" ELEVATION 617'
3. SIGNAL 'A' TO HAVE BELL.
4. LOCATE U/G UTILITIES & CABLE BEFORE DIGGING.
5. CROSSING LOCATED IN KANKAKEE COUNTY.
6. NEAREST STREET ADDRESS IS 519 ENTRANCE AVE.
7. NEAREST INTERSECTING STREET IS W. MULBERRY
8. DISTANCE TO NEAREST INTERSECTING STREET IS 350. FT.
9. THE AC/COMM. LINES LOCATED IN QUADRANT 'A' AND THE COMM. LINES LOCATED IN QUADRANT 'B' ARE POSSIBLE OBSTRUCTIONS AND NEED TO BE RAISED FOR PROPER GATE ARM CLEARANCE. PLEASE CONTACT COMCAST AT 866-732-2255, BEV THIBODEAUX OF SBC (AMERITECH) AT 815-727-8275, AND COMED AT 866-639-3532.
10. CITY/STATE TO INSTALL A CURB AROUND CORNER IN QUADRANT 'B' TO ACCOMMODATE THE PLACEMENT OF SIGNAL 'B' IN ACCORDANCE WITH MUTCO STANDARDS.

IN SERVICE _____ SIGNED _____ DATE _____

☐ S&E ENGINEERING COPY

☐ CONSTRUCTION OFFICE COPY

☐ RETURN TO S&E ENG. AFTER COMPLETION

☐ FIELD COPY

☐ PROJECT ENGINEER COPY

REVISION INITIALS

PROPERTY: PENNSYLVANIA R.R.

SCALE: 1" = 20'

PROJECT #04.0486

LAYOUT

FILE #061-04.503

DESIGNED BY: KSN 02-29-04

DRAWN BY: SSC 02-29-04

CHECKED BY: LAR 03-01-04

IN SERVICE: _____

CAO OF: KANKAKEE BRANCH

DWG. NO.: 31231012.01

SHEET 1 of 19

OFFICE OF ASST. VICE PRESIDENT
COMM. & SIGNAL, ATLANTA, GA.

MSS. II TO NIPSCO IN
KANKAKEE, IL FLGS AT ENTRANCE AVE.

FILE R-
NO. _____

19-Apr-04

Detailed Estimate for Grade Crossing Warning Devices

City/State: KANKAKEE, IL
MilePost: KS-100.94
State Proj. No.: STPRRP-000S
S&E Proj. No.: 04.0485
Man Days: 152

Road: SCHUYLER AVE.
DOT/AAR: 534391X
County: KANKAKEE
AFE: FO1953
File Number: 061-04.502

*****Purchases - Other*****

Meals and Lodging:	\$13,240.00	
Rental of Equipment:	\$28,940.00	
(2 Trucks, 1 Backhoe w/ Trailer and 1 Pipe-Pusher for 38 Days)		
Construction Supervision Vehicle:	\$540.00	
Contingencies:	\$540.00	
Purchases - Other Total:		\$43,260.00

***** Material and Additives*****

Material Cost:	\$99,580.00	
Sales and Use Tax:	\$4,980.00	
Material Handling .Freight:	\$4,980.00	
Material Total:		\$109,540.00

*****Labor and Additives*****

Labor Cost:	\$34,050.00	
(4 man crew at \$896.00 a day for: 38 days)		
Payroll Tax & Overheads:	\$29,480.00	
Preliminary Engineering:	\$11,760.00	
Construction Supervision:	\$9,610.00	
Labor Total:		\$84,900.00
Subtotal:		\$237,700.00
Credit: (Salvage/Scrap)		\$0.00
Project Total:		\$237,700.00

Estimated on: 19-Apr-04

Estimated by: ndney

Estimate valid for 1 year from date of estimate

Highway Crossing Signalization Program - Material List

Do not substitute items without permission from S & E Engineering

City:	KANKAKEE
Road:	SCHUYLER AVE.
Milepost:	KS-100.94
Drawing Number:	31231010
State Project Number:	STPRRP-000S
County:	KANKAKEE
A A R Number:	534391X
Project Number:	04.0485
File Number:	061-04.502
A F E Number:	F01953
Store Number:	06977
Supervisor:	J.W. WILSON
Tax Code:	1200
Vendor to supply the following copies after pricing: 1 Set - Material Management with original invoice 2 Sets - with plans shipped in car with material 1 Set - S&E Gen. Supt. Construction w/ copy of invoice	

19-Apr-04

Exh B-3, p2

11 x 5 3 3 . P 3

LOCATION: MAINTENANCE		P.O. Number:		Date Required:		Date Shipped:		Vendor: Safetran Systems Corp.	
Store No.: 06977									
Qty.	Class-Item-CD	UI	Price per Item	Total Price	Item Description	Quantity Shipped	Quantity Installed	Quantity Returned (Credit)	Special Instructions
3	670-360693-4	EA	\$4.82	\$14.46	AARDOT NUMBER PLATE/DECAL, ORDER 3 PER PROJECT. 60 DAY LEAD TIME. SUPPLIED BY STRAN.				
1	165-006505-4	EA	\$1,028.00	\$1,028.00	AC SERVICE, COMPLETE LESS METER BASE, ASSEMBLED ON 30' POLE				
2	670-001404-4	EA	\$326.77	\$653.54	ARM, GATE FIBERGLASS-ALUMINUM 25-31 FT. L&W OR US&S OR SAFETRAN 076600-320017 OR				
14	670-119241-4	EA	\$30.60	\$428.40	ARRESTOR, LIGHTNING HEAVY DUTY CLEAR VIEW SAFETRAN 022585-1X				
19	105-871901-4	EA	\$154.22	\$2,930.11	BATTERY, GNB 265AH MODEL 50A11 SINGLE CELL 2.25 VOLTS				
1	670-503047-4	EA	\$185.75	\$185.75	BELL CROSSING ELECTRONIC GENERAL SIGNAL, EB-3-360-5 CR 02-044350				
2	670-980689-4	EA	\$63.71	\$127.41	BRACKET HIGH WIND, (RIGID 3), WIG-191036, WALRUS TUSK TYPE				
2	670-561375-4	EA	\$1,201.20	\$2,402.40	BRACKET, GATE SAVER, NEG385102GS, SPRING LOADED SWING AWAY ADAPTER FOR FIBERGLASS/ALUMINUM GATES, USE WITH GATE 28' AND LESS				
800	465-292862-4	LF	\$1.00	\$802.32	CABLE, U-2-6 TWISTED, S-23 OKONITE 113-12-3933 SOLID TINNED CONDUCTOR				
600	465-292896-4	LF	\$1.05	\$632.46	CABLE, U-3-10 POWER SOLID BARE COPPER CONDUCTOR, 45 MILS OKOLENE INSULATION,				
1500	465-292945-4	LF	\$1.35	\$2,026.35	CABLE, U-5-14, S-54 OKONITE 206-14-6885				
400	465-292929-4	LF	\$3.00	\$1,199.44	CABLE, U.G. 5 COND. NO. 6 AWG SOLID COPPER CABLE TO MEET NS CORP. SPEC. FOR SIGNAL				
400	465-939422-4	LF	\$2.56	\$1,023.40	CABLE, UG 12 CONDUCTOR NO 14 AWG SOLID EACH CONDUCTOR WITH 5/64 IN INSULATION 10 MIL				
120	165-544477-4	FT	\$2.00	\$239.47	CONDUIT, 4"x10" PVC, SCHEDULE 80 BELL CONNECTOR AT ONE END, 1/2 PT. GLUE IN KIT 670-123298-4				

APPROVED BY STATE APPROVED BY RAILROAD CAR NUMBER SEAL NUMBER

ENL3-3, P 4

LOCATION: MAINTENANCE		IL		JUL 17, 1994		DATE REQUIRED:		DATE SHIPPED:		VENDOR: Safetran Systems Corp.	
Store No.: 06977		P.O. Number:		Date Required:		Date Shipped:		Vendor: Safetran Systems Corp.			
Qty.	Class-Item-CD	UI	Price per Item	Total Price	Item Description	Quantity Shipped	Quantity Installed	Quantity Returned (Credit)	Special Instructions		
4	670-090450-4	EA	\$49.62	\$198.50	CONNECTOR, WELDED FAR RAIL HARMON A1000-2W						
4	670-486646-4	EA	\$40.66	\$162.64	CONNECTOR, WELDED NEAR RAIL HARMON A1000-1W						
2	670-794453-4	EA	\$854.30	\$1,708.61	COUNTERWEIGHT PKAGE, 25-31 GATE STAN S- MECH ONLY, STAINLESS TO INCLUDE HUB, SUPPORT ARMS						
1	670-006545-4	EA	\$186.05	\$186.05	COUPLER, PSO II TUNED RECEIVER SAFETRAN NO. 7A355A-1770HZ						
1	670-009101-4	EA	\$186.05	\$186.05	COUPLER, PSO TUNED RECEIVER SAFETRAN NO. 7A355A-2630HZ						
1	670-380829-4	EA	\$563.94	\$563.94	COUPLER, BIDIRECTIONAL SIMULATION STRAN # 62664-430						
3	670-080337-4	EA	\$0.73	\$2.18	DECAL, X'ING SIGNAL MALFUNCTION 11" X 4", GATE MOUNT						
3	670-077544-4	EA	\$0.54	\$1.63	DECAL, X'ING SIGNAL MALFUNCTION 6" X 6", MAST MOUNT						
2	670-986650-4	EA	\$361.26	\$722.52	DISPOSAL, CONSTRUCTION DEBRIS AND CLEANING X'ING EQUIPMENT CONTAINER.						
6	670-000003-4	EA	\$265.85	\$1,535.10	FILLSTONE #57, QUANTITY IS BASED ON TRUCK LOAD PLUS DELIVERY COST						
2	670-015231-4	EA	\$381.69	\$763.37	FOUNDATION, DIXIE, S-2 GATE 56" ASSEMBLED						
2	670-477991-4	EA	\$282.81	\$565.61	KIT, GROUNDING ASSY FOR AL I/S INCLUDES 8 GRD RDS, 200#AWIRE, 12 4 WIRE ONE-SHOTS, ERICO SBK206						
2	670-123298-4	EA	\$256.93	\$513.86	KIT, HARDWARE SUPPLIES REQUIRED X'ING PKAGES, WEB CONNECTORS FOR SHUNT(8EA) TAPE, AMPS, PGUM PAINT, SLEEVES, TAGS, GLUE, 100 EA WHITE TAGS, JNE CAN BLUE MARKING PAINT ETC...						
2	670-764166-4	EA	\$907.09	\$1,814.18	LAMP ASSY, 5" MAST MTG, 2W IND, 20" BKGRD, FLX-12 W/BULB STRAN #042003-487XNS						

APPROVED BY STATE

APPROVED BY RAILROAD

CAR NUMBER

SEAL NUMBER

Location: KANKAKEE IL S&E Proj. No.: 04.0485 AFE NO.: 7/15/00 Drawing No.: 0100100
 Store No.: 06977 P.O. Number: Date Required: Date Shipped: Vendor: Safetran Systems Corp.

Qty.	Class-Item-CD	UI	Price per item	Total Price	Item Description	Quantity Shipped	Quantity Installed Date Quan.	Quantity Returned Date Quan.	Quantity Returned Date (Credit)	Special Instructions
6	165-643547-4	EA	\$8.43	\$50.60	LAMP, 18 WATT 10 VOLT S-11 SC BAY 18S11/11SC CLEAR RMY SIGNAL UJ-71463 GE					
10	670-440826-4	EA	\$1.01	\$10.13	LINK, SAFETRAN 024620-1X INSL TESTING COMP 1 IN CENTER SIGNAL CIRCUITS CR 02-286662					
6	255-590880-4	EA	\$15.62	\$93.70	LOCK, AMERICAN LOCK MODEL H-10KA KEYPED ALIKE TO PRIVATE KEYWAY D456 AND STAMPED "NS SIG"					
2	670-637778-4	EA	\$1,055.55	\$2,111.09	MAST, 5" ALUMINUM 13'10" WITH DOUBLE JCT. BOX BASE, STRAN P# 070519-11AX.					
2	670-521147-4	EA	\$2,932.81	\$5,865.62	MECHANISM, GATE MODEL S40, WITH CONTACT HEATER, COMPLETE W/RELAY STRAN # 074000-W00090					
4	670-001347-4	EA	\$57.98	\$231.90	PACKAGE, HARDWARE SIGN 5 IN. MOUNTING, SERRMI A1250-5, HARMON @200965-000, OR					
2	255-646807-4	EA	\$9.49	\$18.97	PADLOCK, SAFETRAN PART NO. 030399-29X SCREW TYPE FOR CIR CONTROLLER AND BTY. BOX					
1	670-514605-4	EA	\$8.43	\$8.43	PINNACLE, W-C SECT 1-11, 4" & 5" REF K1 110-8 OR SAFETRAN NO. @035045-503X					
5	670-555609-4	EA	\$41.11	\$205.55	PLUGBOARD, TYPE B-1 GRS A62-506 OR HARMON @7062-506 OR					
2	165-902002-4	EA	\$308.00	\$616.00	PROTECTOR, SURGE 120/240VAC, ERICO P/N EPD120/240TDFL					
1	670-006537-4	EA	\$959.23	\$959.23	RECEIVER, PSO II SAFETRAN NO. 7A405-1770HZ					
1	670-007626-4	EA	\$959.23	\$959.23	RECEIVER, PSO II SAFETRAN NO. 7A405-2630HZ					
7	465-002899-4	EA	\$20.88	\$146.14	REEL, CABLE DISPOSABLE FOR CROSSING SIGNAL PACKAGES					
2	670-742086-4	EA	\$38.50	\$77.00	RELAY INTERFACE PROBE, ULTRATECH PN 16031-00					

APPROVED BY STATE APPROVED BY RAILROAD CAR NUMBER SEAL NUMBER

Exh B-3, p 5

11 25 B-3, p 6

Location: KANKAKEE IL S&E Proj. No.: 04.0485 A/E No.: F01903 Drawing No.: 01201010
Store No.: 06977 P.O. Number: Date Required: Date Shipped: Vendor: Safetran Systems Corp.

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1	670-456936-4	EA	\$150.00	\$150.00	RELAY RACK, SWING, FARADAY SELTER FOR ONE RELAY, SSFETTRAN P/N T15331				
5	670-707995-4	EA	\$356.29	\$1,781.43	RELAY, TYPE B1, NEV LINE, 900 OHMS, .008 AMPERES GRS A62-308 OR SAFETTRAN @400003				
1	670-391911-4	EA	\$5,329.57	\$5,329.57	SEARII AUTOMATED INSPECTOR SYSTEM KIT, w/ 1- ILOD 1-BSX, 2-GTS, 2-MTSS, 1-GFT, 1-VHFC, 2-RECORDER INTERFACE MODULE, 1- ECHELON CONNECTOR				
2	670-281280-4	EA	\$7,006.00	\$14,012.00	SHELTER BARE 6X6, ALUMN, FARADAY, W/CABLE CHUTES BEHIND TERMINAL BOARD, W/GEN. CONN. W/ADJUSTABLE PIERS, SAFETTRAN P/N 058400-66-78A				
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1	670-652773-4	EA	\$470.56	\$470.56	SHUNT, MULTI-FREQ. #62775-1543 SAFETTRAN NARROW BAND				
1	670-688850-4	EA	\$370.27	\$370.27	SHUNT, MULTI-FREQ. #62775-3497 SAFETTRAN NARROW BAND				
2	670-806648-4	EA	\$56.42	\$112.84	SIGN, X-BUCK, LESS HARDWARE, SAFETTRAN 035200-X CR 02-490546				
2	670-751511-4	EA	\$35.58	\$71.17	SIGN, "1" TRACK, LESS HARDWARE SAFETTRAN# 035207-1X				
2	670-006438-4	EA	\$10.54	\$21.08	TAPE, 4" X 96" REFLECTIVE APPLY TO BACK OF X-BUCK SIGN, ONLY IN IA., IN., IL., AL. 035200-555X				
2	670-330382-4	RL	\$10.75	\$21.49	TAPE, THOR 3" DURATEC, ORANGE 1000' LENGTHS, "WARNING STOP DIGGING"				
25	670-478560-4	EA	\$19.47	\$486.75	TERMINAL BLOCK, ERICO 4 POST P/N B2700A2C1WH W/HARDWARE LESS LIGHTNING ARRESTOR				
5	165-917984-4	EA	\$4.22	\$21.08	TERMINAL, TEST, TYPE B GRS A62-515 OR HARMON @32118-001 OR				
5	610-065626-4	EA	\$16.66	\$83.33	ULTRA-TECH 15206-01 CONNECTIVITY BLOCK FOR GRS B1 RELAY				

APPROVED BY STATE APPROVED BY RAILROAD CAR NUMBER SEAL NUMBER

Location: KANKAKEE

IL

S&E Proj. No.: 04.0485

AFE No.: F01953

Drawing No.: 31231010

Page 5/5

Store No.: 06977

P.O. Number:

Date Required:

Date Shipped:

Vendor: Safetran Systems Corp.

Qty.	Class-Item-CD	UI	Price per Item	Total Price	Item Description	Quantity Shipped	Quantity Installed	Quantity Returned (Credit)	Special Instructions
10	670-007238-4	EA	\$137.14	\$1,371.36	UNIT, THE INSTALLATION AND WIRING OF A DEVICE WHICH REQUIRE A MINIMUM OF FOUR WIRE CONNECT-				
1	670-270377-4	EA	\$15,616.66	\$15,616.66	WIRED RACK, 6X6 FARADAY, 20AMP SINGLE TRK (NO CONTROLLER), GCP3000, 1CRAGG CHARGER, 2 RELAY RACKS, SAFTRAN PIN 20A UNI 1TRK, USE WITH I/S 670-281280-4 W/CABLE CHUTES BEHIND THE FARADAY SHIELD				
1	670-258957-4	EA	\$25,580.50	\$25,580.50	WIRED RACK, 6X6 FARADAY, 20AMP SINGLE TRK SSCCIIIA, GCP3000D2, 2 CRAGG CHARGER, 2 RELAY RACKS, SAFTRAN PIN 20A 1TRK, USE WITH I/S 670-281280-4 W/CABLE CHUTES BEHIND THE FARADAY SHIELD				
2	450-986008-4	EA	\$7.35	\$14.70	WRENCH, TEST POST TYPE B DWG 56393-3, GR.1				

Total Material \$99,575.63

APPROVED BY STATE

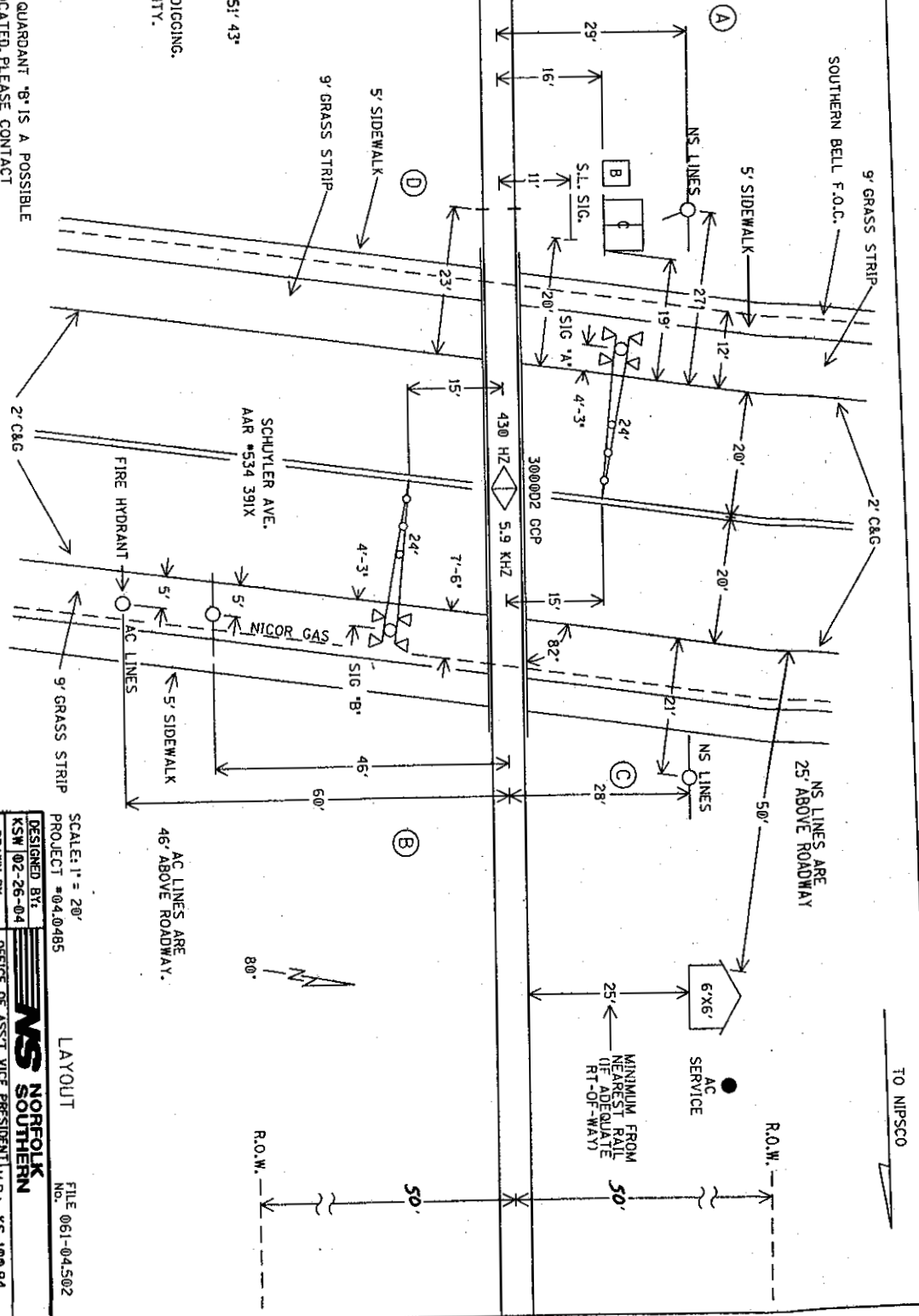
APPROVED BY RAILROAD

CAR NUMBER

SEAL NUMBER

TO HENNEPIN

APPROACH LENGTHS ALLOW FOR:	
TIME IN SECONDS	CBT E.B./W.B. APPROACH
STANDARD W/TCO MIN. TIME	20
DESIGNED WARNING TIME	30
EQUIPMENT RESPONSE TIME	5
TOTAL TIME	55
MAX SPEED (M.P.H.)	25
APPROACH DISTANCE (FEET)	1286




- IN SERVICE _____ SIGNED _____ DATE _____
- ☐ S&E ENGINEERING COPY
- ☐ CONSTRUCTION OFFICE COPY
- ☐ RETURN TO S&E ENG. AFTER COMPLETION
- ☐ FIELD COPY
- ☐ RETURN TO CASE AFTER COMPLETION
- ☐ PROJECT ENGINEER COPY

- NOTES:
1. MAX. TRAIN SPEED 25 M.P.H.
 2. LATITUDE N 41° 07' 45" LONGITUDE W 87° 51' 43"
ELEVATION - 614'
 3. SIGNAL "A" TO HAVE BELL.
 4. LOCATE U/G UTILITIES & CABLE BEFORE DIGGING.
 5. CROSSING LOCATED IN KANKAKEE COUNTY.
 6. NEAREST STREET ADDRESS IS
756. SCHUYLER AVE.
 7. NEAREST INTERSECTING STREET IS
E. WILLOW
 8. DISTANCE TO NEAREST INTERSECTING
STREET IS 125 FT.
 9. THE UNDERGROUND GAS LINE LOCATED IN QUADRANT "B" IS A POSSIBLE
OBSTRUCTION AND MAY NEED TO BE RELOCATED. PLEASE CONTACT
PATRICIO MUNOZ OF NICOR GAS AT 815-740-4100 EXT. 203.
 10. FIELD TO VOID EXISTING PLANS AND PROVIDE MARKUPS FOR A.I.S.

Ⓐ Ⓑ Ⓒ Ⓓ = QUADRANT MARKERS

REVISION INITIALS					PENNSYLVANIA R.R.	-	DWG. NO.	312310D-01	NO.	1
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SCALE: 1" = 20'		FILE #01-04502	
PROJECT #04-0485		NO.	
LAYOUT			
DESIGNED BY: KSW 02-26-04		M.P.: KS-100.94	
DRAIN BY: SSC 02-26-04			
CHECKED BY: LAR 03-08-04			
IN SERVICE: -			
 NS NORFOLK SOUTHERN			
OFFICE OF ASST. VICE PRESIDENT COMM. & SIGNAL, ATLANTA, GA.			
MISS. IL TO NIPSCO IN KANKAKEE, ILL FLOS AT SCHUYLER AVE.			
KANKAKEE BRANCH		FILE R-	
CADD OF	31231010.01	SHEET	1 of 19
DWG. NO.		NO.	

Detailed Estimate for Grade Crossing Warning Devices

City/State: KANKAKEE, IL
MilePost: KS-100.71
State Proj. No.: STPRRP-000S
S&E Proj. No.: 04.0401
Man Days: 120

Road: INDIANA AVE.
DOT/AAR: 534390R
County: KANKAKEE
AFE: F01951
File Number: 061-04.445

*****Purchases - Other*****

Meals and Lodging:	\$10,450.00	
Rental of Equipment:	\$22,850.00	
(2 Trucks, 1 Backhoe w/ Trailer and 1 Pipe-Pusher for 30 Days)		
Construction Supervision Vehicle:	\$430.00	
Contingencies:	\$600.00	
Purchases - Other Total:		\$34,330.00

***** Material and Additives*****

Material Cost:	\$67,390.00	
Sales and Use Tax:	\$3,370.00	
Material Handling _Freight:	\$3,370.00	
Material Total:		\$74,130.00

*****Labor and Additives*****

Labor Cost:	\$26,880.00	
(4 man crew at \$896.00 a day for: 30 days)		
Payroll Tax & Overheads:	\$23,270.00	
Preliminary Engineering:	\$8,300.00	
Construction Supervision:	\$7,590.00	
Labor Total:		\$66,040.00
Subtotal:		\$174,500.00
Credit:		\$0.00
(Salvage/Scrap)		
Project Total:		\$174,500.00

Estimated on: 19-Apr-04

Estimated by: ndney

Estimate valid for 1 year from date of estimate

Highway Crossing Signalization Program - Material List

Do not substitute items without permission from S & E Engineering

City:	KANKAKEE
Road:	INDIANA AVE.
Milepost:	KS-100.71
Drawing Number:	31231007
State Project Number:	STPRRP-000S
County:	KANKAKEE
A A R Number:	534390R
Project Number:	04.0401
File Number:	061-04.445
A F E Number:	F01951
Store Number:	06110
Supervisor:	J.W. WILSON
Tax Code:	
Vendor to supply the following copies after pricing:	
1 Set - Material Management with original invoice	
2 Sets - with plans shipped in car with material	
1 Set - S&E Gen. Supt. Construction w/ copy of invoice	

19-Apr-04

Location: KANKAKEE

IL

S&E Proj. No.: 04.0401

AFE No.: F01951

Drawing No.: 31231007

Page 1/4

Store No.: 06110

P.O. Number:

Date Required:

Date Shipped:

Vendor: Safetran Systems Corp.

Qty.	Class-Item-CD	UI	Price per Item	Total Price	Item Description	Quantity Shipped	Quantity Date	Quantity Date	Quantity Date	Quantity Returned (Credit)	Special Instructions
3	670-360693-4	EA	\$4.82	\$14.46	AARDOT NUMBER PLATE/DECAL, ORDER 3 PER PROJECT. 60 DAY LEAD TIME. SUPPLIED BY STRAN.						
1	165-006505-4	EA	\$1,028.00	\$1,028.00	AC SERVICE, COMPLETE LESS METER BASE, ASSEMBLED ON 30' POLE						
2	670-001404-4	EA	\$326.77	\$653.54	ARM, GATE FIBERGLASS-ALUMINUM 25-31 FT. L&W OR US&S OR SAFETRAN 076800-320017 OR						
2	670-119241-4	EA	\$30.60	\$61.20	ARRESTOR, LIGHTNING HEAVY DUTY CLEAR VIEW SAFETRAN 022585-1X						
13	105-871901-4	EA	\$154.22	\$2,004.81	BATTERY, GNB 265AH MODEL 50A11 SINGLE CELL 2.25 VOLTS						
1	670-503047-4	EA	\$185.75	\$185.75	BELL, CROSSING ELECTRONIC GENERAL SIGNAL, EB-3-360-5 CR 02-044350						
2	670-980689-4	EA	\$63.71	\$127.41	BRACKET HIGH WIND, (RIGID 3), WIG-191036, WALRUS TUSK TYPE						
2	670-561375-4	EA	\$1,201.20	\$2,402.40	BRACKET, GATE SAVER, NEG38510ZGS, SPRING LOADED SWING AWAY ADAPTER FOR FIBERGLASS/ALUMINUM GATES, USE WITH GATE 28' AND LESS						
400	465-292862-4	LF	\$1.00	\$401.16	CABLE, U-2-6 TWISTED, S-23 OKONITE 113-12-3933 SOLID TINNED CONDUCTOR						
1100	465-292945-4	LF	\$1.35	\$1,485.99	CABLE, U-5-14, S-54 OKONITE 206-14-6885						
400	465-292929-4	LF	\$3.00	\$1,199.44	CABLE, U.G. 5 COND. NO. 6 AWG SOLID COPPER CABLE TO MEET NS CORP. SPEC. FOR SIGNAL						
400	465-939422-4	LF	\$2.56	\$1,023.40	CABLE, UG 12 CONDUCTOR NO 14 AWG SOLID EACH CONDUCTOR WITH 5/64 IN INSULATION 10 MIL						
300	465-277674-4	FT	\$2.80	\$841.23	CABLE, UG 3CD NUMBER 6 FOR HIGH CURRENT AC POWER OKONITE 206-11-6-243						
120	165-544477-4	FT	\$2.00	\$239.47	CONDUIT, 4"x10" PVC, SCHEDULE 80 BELL CONNECTOR AT ONE END, 1/2 PT. GLUE IN KIT 670-123298-4						

APPROVED BY STATE

APPROVED BY RAILROAD

CAR NUMBER

SEAL NUMBER

Location: KANKAKEE

IL

S&E Proj. No.: 04.0401

A/E No.: F01951

Drawing No.: 31231007

Vendor: Safetran Systems Corp.

Store No.: 06110

P.O. Number:

Date Required:

Date Shipped:

Qty.	Class-Item-CD	UI	Price per Item	Total Price	Item Description	Quantity Shipped	Quantity Installed			Quantity Returned (Credit)	Special Instructions
							Date	Date	Date		
2	670-090450-4	EA	\$49.62	\$99.25	CONNECTOR, WELDED FAR RAIL HARMON A1000-2W						
2	670-486646-4	EA	\$40.66	\$81.32	CONNECTOR, WELDED NEAR RAIL HARMON A1000-1W						
2	670-793404-4	EA	\$838.38	\$1,676.76	COUNTERWEIGHT PKAGE, 17-24 GATE STRAN S-MECH ONLY, STAINLESS, TO INCLUDE HUB, SUPPORT ARMS						
4	670-760012-4	EA	\$34.90	\$139.59	COVER, FOR 1 WAY FLASHING LIGHT ASSY, 18 OZ. BLACK VINYL COATED NYLON. === TO COVER 2 LAMPS ===						
1	670-986650-4	EA	\$361.26	\$361.26	DISPOSAL, CONSTRUCTION DEBRIS AND CLEANING XING EQUIPMENT CONTAINER						
1	670-000004-4	EA	\$281.44	\$281.44	FCC LICENSE FOR MONITOR/RADIO						
6	670-000003-4	EA	\$255.85	\$1,535.10	FILLSTONE #57, QUANTITY IS BASED ON TRUCK LOAD PLUS DELIVERY COST						
2	670-015231-4	EA	\$381.69	\$763.37	FOUNDATION, DIXIE S-2 GATE 56" ASSEMBLED						
1	670-468243-4	EA	\$36.84	\$36.84	INDUCTOR, SIMULATED TRACK SAFETRAN 8V617-400						
1	670-477991-4	EA	\$292.81	\$292.81	KIT, GROUNDING ASSY FOR ALI/S INCLUDES 8 GRD RDS, 200#4 WIRE, 12.4 WIRE ONE SHOTS, ERICO SBK206						
1	670-123298-4	EA	\$256.93	\$256.93	KIT, HARDWARE SUPPLIES REQUIRED XING PKAGES, WEB CONNECTORS FOR SHUNT(8EA) TAPE, AMPS, P-GUM PAINT, SLEEVES, TAGS, GLUE, 100 EA WHITE TAGS, JNE CAN BLUE MARKING PAINT ETC...						
2	670-764186-4	EA	\$907.09	\$1,814.18	LAMP ASSY, 5" MAST MTG, 2W IND, 20" BKGRD, FLX-12 W/BULB STRAN #042003-487XNS						
6	165-643547-4	EA	\$8.43	\$50.60	LAMP, 18 WATT 10 VOLT S-11 SC BAY 18S11/11SC CLEAR RMY SIGNAL UJ-71463 GE						
2	670-440826-4	EA	\$1.01	\$2.03	LINK, SAFETRAN 024620-1X INSL TESTING COMP 1 IN CENTER SIGNAL CIRCUITS CR 02-286662						

APPROVED BY STATE

APPROVED BY RAILROAD

CAR NUMBER

SEAL NUMBER

Feb B-4, p5

Location: KANKAKEE IL S&E Proj No.: 04,0401 AFE No.: F01951 Drawing No.: 31231007 Page 31/4
 Store No.: 06110 P.O. Number: Date Required: Date Shipped: Vendor: Safetran Systems Corp.

Qty.	Class-Item-CD	UI	Price per Item	Total Price	Item Description	Quantity Shipped	Quantity Installed	Quantity Returned (Credit)	Special Instructions
4	255-590880-4	EA	\$15.62	\$62.47	LOCK, AMERICAN LOCK MODEL H-10KA KEYS ALIKE TO PRIVATE KEYWAY D456 AND STAMPED "NS SIG"				
2	670-637778-4	EA	\$1,055.55	\$2,111.09	MAST, 5" ALUMINUM 13'10" WITH DOUBLE JCT. BOX BASE. STRAN P# 070519-11AX.				
2	670-521147-4	EA	\$2,932.81	\$5,865.62	MECHANISM, GATE MODEL S40, WITH CONTACT HEATER, COMPLETE W/RELAY STRAN # 074000-W000090				
4	670-001347-4	EA	\$57.98	\$231.90	PACKAGE, HARDWARE SIGN 5 IN, MOUNTING, SERRMI A1250-5, HARMON @200965-000, OR				
1	255-646807-4	EA	\$9.49	\$9.49	PADLOCK, SAFETRAN PART NO. 030399-29X SCREW TYPE FOR CIR CONTROLLER AND BTY. BOX				
1	670-555609-4	EA	\$41.11	\$41.11	PLUGBOARD, TYPE B-1 GRS A62-506 OR HARMON @7062-506 OR				
1	165-902002-4	EA	\$308.00	\$308.00	PROTECTOR, SURGE 120/240VAC, ERICO P/N EPD120/240TDFL				
5	465-002899-4	EA	\$20.88	\$104.39	REEL, CABLE DISPOSABLE FOR CROSSING SIGNAL PACKAGES				
1	670-742096-4	EA	\$38.50	\$38.50	RELAY INTERFACE PROBE, ULTRATECH PN 16031-00				
1	670-707995-4	EA	\$356.29	\$356.29	RELAY, TYPE B1, NEW LINE, 900 OHMS, .008 AMPERES GRS A62-308 OR SAFETRAN @400003				
1	670-391911-4	EA	\$5,329.57	\$5,329.57	SEARII AUTOMATED INSPECTOR SYSTEM KIT, w/ 1- IL0D, 1-BSX, 2-GTS, 2-MTSS, 1-GFT, 1-VHFC, 2-REORDER INTERFACE MODULE, 1-ECHOLON CONNECTOR				
1	670-281280-4	EA	\$7,006.00	\$7,006.00	SHELTER BARE 6X6, ALUMN, FARADAY, W/CABLE CHUTES BEHIND TERMINAL BOARD, W/GEN. CONN. W/ADJUSTABLE PIERS, SAFETRAN P/N 058400-66-78A				
2	670-588697-4	EA	\$34.74	\$69.49	SHUNT COVER W/LAG SCREWS, 19"x19", SERRMI #40271, ORDER 1 PER SHUNT				
2	670-688850-4	EA	\$370.27	\$740.53	SHUNT, MULTI-FREQ. #62775-3497 SAFETRAN NARROW BAND				

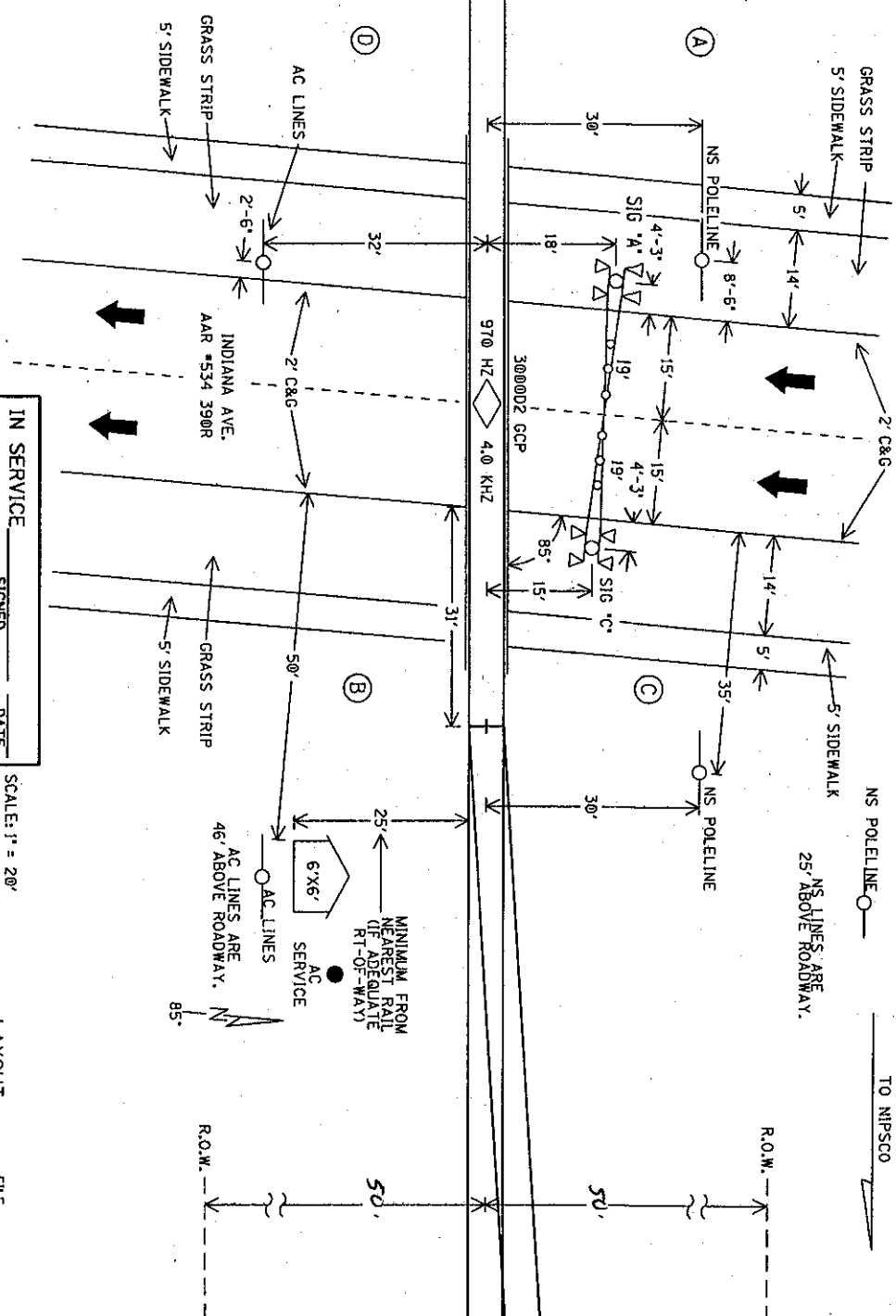
APPROVED BY STATE APPROVED BY RAILROAD CAR NUMBER SEAL NUMBER

Ex B-4, p 6

Qty.	Class-Item-CD	UI	Price per Item	Total Price	Item Description	Quantity Shipped	Quantity Installed	Quantity Returned (Credit)	Special Instructions
2	670-806648-4	EA	\$56.42	\$112.84	SIGN, X-BUCK, LESS HARDWARE, SAFETRAN 035200-X CR 02-490546				
2	670-751511-4	EA	\$35.58	\$71.17	SIGN, "1" TRACK, LESS HARDWARE SAFETRAN# 035207-1X				
2	670-006438-4	EA	\$10.54	\$21.08	TAPE, 4" X 96" REFLECTIVE APPLY TO BACK OF X-BUCK SIGN, ONLY IN IA, IN, IL, AL. 035200-555X				
1	670-330382-4	RL	\$10.75	\$10.75	TAPE, THOR 3" DURATEC, ORANGE 1000' LENGTHS. "WARNING STOP DIGGING"				
5	670-478560-4	EA	\$19.47	\$97.35	TERMINAL BLOCK, ERICO 4 POST P/N B2700A2C1WH W/HARDWARE LESS LIGHTNING ARRESTOR				
1	610-065626-4	EA	\$16.66	\$16.67	ULTRA-TECH 15206-01 CONNECTIVITY BLOCK FOR GRS B1 RELAY				
1	670-007238-4	EA	\$137.14	\$137.14	UNIT, THE INSTALLATION AND WIRING OF A DEVICE WHICH REQUIRE A MINIMUM OF FOUR WIRE CONNECT-				
1	670-258957-4	EA	\$25,580.50	\$25,580.50	WIRED RACK, 6X6 FARADAY, 20AMP SINGLE TRK SSCCIIA, GCP3000D2, 2 CRAGG CHARGER, 2 RELAY RACKS, SAFTRAN P/N 20A 1TRK, USE WITH I/S 670-281280-4 W/CABLE CHUTES BEHIND THE FARADAY SHIELD				
1	450-986008-4	EA	\$7.35	\$7.35	WRENCH, TEST POST TYPE B DWG 56393-3, GR.1				

Total Material \$67,389.01

APPROACH LENGTHS ALLOW FOR:		
TIME IN SECONDS	CWT	
	E.B./W.B.	APPROACH
STANDARD MUTED MIN. TIME	30	20
DESIGNED WARNING TIME	20	
EQUIPMENT RESPONSE TIME	5	
TOTAL TIME	35	
MAX. SPEED (M.P.H.)	25	
APPROACH DISTANCE (FEET)	1286	



1. MAX. TRAIN SPEED 25 M.P.H.
 2. LATITUDE N 41° 07' 47" LONGITUDE W 87° 51' 33"
 - ELEVATION 594'
 3. SIGNAL "A" TO HAVE BELL.
 4. LOCATE U/G UTILITIES & CABLE BEFORE DIGGING.
 5. CROSSING LOCATED IN KANKAKEE COUNTY.
 6. NEAREST STREET ADDRESS IS
782 INDIANA AVE.
 7. NEAREST INTERSECTING STREET IS
E. WILLOW.
 8. DISTANCE TO NEAREST INTERSECTING
STREET IS 170. FT.
- (A)(B)(C)(D) = QUADRANT MARKERS

182 INDIANA AVE. 7. NEAREST INTERSECTING STREET IS E. WILLOW 8. DISTANCE TO NEAREST INTERSECTING STREET IS 170 FT.		IN SERVICE _____ SIGNED _____ DATE _____ <input type="checkbox"/> S&E ENGINEERING COPY <input type="checkbox"/> CONSTRUCTION OFFICE COPY <input type="checkbox"/> RETURN TO S&E ENG. AFTER COMPLETION <input type="checkbox"/> FIELD COPY <input type="checkbox"/> RETURN TO CASE AFTER COMPLETION <input type="checkbox"/> PROJECT ENGINEER COPY	
(A) (B) (C) (D) = QUADRANT MARKERS		SCALE: 1" = 20' PROJECT #0410401 LAYOUT FILE #061-04.445 No. _____	
DRAWN BY: KSW 102-25-04 DESIGNED BY: SSC 102-25-04 CHECKED BY: LAR 03-08-04 IN SERVICE: _____		OFFICE OF ASST. VICE PRESIDENT COMM. & SIGNAL, ATLANTA, GA. MISS. IL. TO NIPSCO IN KANKAKEE, IL FLOS AT INDIANA AVE. KANKAKEE BRANCH FILE NO. R- SHEET 1 of 19	

Detailed Estimate for Grade Crossing Warning Devices

City/State: KANKAKEE, IL
MilePost: KS-100.51
State Proj. No.: STPRRP-000S
S&E Proj. No.: 04.0483
Man Days: 112

Road: GREENWOOD AVE.
DOT/AAR: 534388P
County: KANKAKEE
AFE: F01952
File Number: 061-04.501

*****Purchases - Other*****

Meals and Lodging:	\$9,750.00	
Rental of Equipment:	\$21,320.00	
(2 Trucks, 1 Backhoe w/ Trailer and 1 Pipe-Pusher for 28 Days)		
Construction Supervision Vehicle:	\$400.00	
Contingencies:	\$540.00	
Purchases - Other Total:		\$32,010.00

***** Material and Additives*****

Material Cost:	\$65,140.00	
Sales and Use Tax:	\$3,260.00	
Material Handling Freight:	\$3,260.00	
Material Total:		\$71,660.00

*****Labor and Additives*****

Labor Cost:	\$25,090.00	
(4 man crew at \$896.00 a day for: 28 days)		
Payroll Tax & Overheads:	\$21,720.00	
Preliminary Engineering:	\$7,940.00	
Construction Supervision:	\$7,080.00	
Labor Total:		\$61,830.00
Subtotal:		\$165,500.00
Credit:		\$0.00
(Salvage/Scrap)		
Project Total:		\$165,500.00

Estimated on: 19-Apr-04

Estimated by: ndney

Estimate valid for 1 year from date of estimate

Highway Crossing Signalization Program - Material List

Do not substitute items without permission from S & E Engineering

City:	KANKAKEE
Road:	GREENWOOD AVE.
Milepost:	KS-100.51
Drawing Number:	31231005
State Project Number:	STPRRP-000S
County:	KANKAKEE
A A R Number:	534388P
Project Number:	04.0483
File Number:	061-04.501
A F E Number:	F01952
Store Number:	06978
Supervisor:	J.W. WILSON
Tax Code:	1200

Vendor to supply the following copies after pricing:

- 1 Set - Material Management with original invoice
- 2 Sets - with plans shipped in car with material
- 1 Set - S&E Gen. Supt. Construction w/ copy of invoice

19-Apr-04

Exh B-5, p 3

Store No.: 06978 P.O. Number: Date Required: Date Shipped: Vendor: Safetran Systems Corp.

Qty.	Class-Item-CD	UI	Price per Item	Total Price	Item Description	Quantity Shipped	Quantity Installed	Quantity Returned (Credit)	Special Instructions
3	670-360693-4	EA	\$4.82	\$14.46	AARDOT NUMBER PLATE/DECAL, ORDER 3 PER PROJECT. 60 DAY LEAD TIME. SUPPLIED BY STRAN.				
1	165-006505-4	EA	\$1,028.00	\$1,028.00	AC SERVICE, COMPLETE LESS METER BASE, ASSEMBLED ON 30 POLE				
2	670-001404-4	EA	\$326.77	\$653.54	ARM, GATE FIBERGLASS-ALUMINUM 25-31 FT. L&W OR US&S OR SAFETTRAN 076600-320017 OR				
13	105-871901-4	EA	\$154.22	\$2,004.81	BATTERY,GNB 265AH MODEL 50A11 SINGLE CELL 2.25 VOLTS				
1	670-503047-4	EA	\$185.75	\$185.75	BELL, CROSSING ELECTRONIC GENERAL SIGNAL, EB-3-360-5 CR 02-044350				
2	670-980689-4	EA	\$63.71	\$127.41	BRACKET HIGH WIND, (RIGID 3), WIG- 191036, WALRUS TUSK TYPE				
2	670-561375-4	EA	\$1,201.20	\$2,402.40	BRACKET, GATE SAVER, NEG385102GS, SPRING LOADED SWING AWAY ADAPTER FOR FIBERGLASS/ALUMINUM GATES, USE WITH GATE 28' AND LESS				
400	465-292862-4	LF	\$1.00	\$401.16	CABLE, U-2-6 TWISTED, S-23 OKONITE 113-12-3933 SOLID TINNED CONDUCTOR				
400	465-292929-4	LF	\$3.00	\$1,199.44	CABLE, U.G. 5 COND. NO. 6 AWG SOLID COPPER CABLE TO MEET NS CORP. SPEC. FOR SIGNAL				
400	465-939422-4	LF	\$2.56	\$1,023.40	CABLE, UG 12 CONDUCTOR NO 14 AWG SOLID EACH CONDUCTOR WITH 564 IN INSULATION 10 MIL				
300	465-277674-4	FT	\$2.80	\$841.23	CABLE, UG 3CD NUMBER 6 FOR HIGH CURRENT AC POWER OKONITE 206-11-6 243				
120	165-544477-4	FT	\$2.00	\$239.47	CONDUIT, 4"x10" PVC, SCHEDULE 80 BELL CONNECTOR AT ONE END, 1/2 PT. GLUE IN KIT 670-123298-4				
2	670-090450-4	EA	\$49.62	\$99.25	CONNECTOR,WELDED FAR RAIL HARMON A1000-2W				
2	670-486646-4	EA	\$40.66	\$81.32	CONNECTOR,WELDED NEAR RAIL HARMON A1000-1W				

Exh B-5, 104

Store No.: 06978 P.O. Number: Date Required: Date Shipped: Vendor: Safetran Systems Corp.

Qty.	Class-Item-CD	UI	Price per Item	Total Price	Item Description	Quantity Shipped	Quantity Installed			Quantity Returned (Credit)	Special Instructions
							Date	Date	Date		
							Quan.	Quan.	Quan.		
2	670-794453-4	EA	\$854.30	\$1,708.61	COUNTERWEIGHT PKAGE 25-31 GATE STAN S- MECH ONLY, STAINLESS TO INCLUDE HUB, SUPPORT ARMS						
4	670-760012-4	EA	\$34.90	\$139.59	COVER, FOR 1 WAY FLASHING LIGHT ASSY, 18 OZ. BLACK VINYL COATED NYLON, === TO COVER 2 LAMP===						
1	670-986650-4	EA	\$361.26	\$361.26	DISPOSAL, CONSTRUCTION DEBRIS AND CLEANING XING EQUIPMENT CONTAINER						
1	670-000004-4	EA	\$281.44	\$281.44	FCC LICENSE FOR MONITOR/RADIO						
6	670-000003-4	EA	\$255.85	\$1,535.10	FILL/STONE #57, QUANTITY IS BASED ON TRUCK LOAD PLUS DELIVERY COST						
2	670-015231-4	EA	\$381.69	\$763.37	FOUNDATION, DIXIE, S-2 GATE 56" ASSEMBLED						
1	670-477991-4	EA	\$292.81	\$292.81	KIT, GROUNDING ASSY FOR AL I/S INCLUDES 8 GRD RDS, 200 #4 WIRE, 12 4 WIRE ONE-SHOTS, ERICO SBK206						
1	670-123298-4	EA	\$256.93	\$256.93	KIT, HARDWARE SUPPLIES REQUIRED XING PKGAGES. WEB CONNECTORS FOR SHUNT (8EA) TAPE, AMPS, P/GUM PAINT, SLEEVES, TAGS, GLUE, 100 EA WHITE TAGS, JNE CAN BLUE MARKING PAINT ETC...						
2	670-764166-4	EA	\$907.09	\$1,814.18	LAMP ASSY, 5" MAST M/TG, 2W/IND, 20" BKGRD, FLX-12 W/BULB STRAN #042003-487XNS						
6	165-643547-4	EA	\$8.43	\$50.60	LAMP, 18 WATT 10 VOLT S-11 SC BAY 18S11/1SC CLEAR R/WY SIGNAL UJ-71463 GE						
4	255-590880-4	EA	\$15.62	\$62.47	LOCK, AMERICAN LOCK MODEL H-10KA KEYED ALIKE TO PRIVATE KEYWAY D456 AND STAMPED "NS SIG"						
2	670-637778-4	EA	\$1,055.55	\$2,111.09	MAST, 5" ALUMINUM 13'10" WITH DOUBLE JCT. BOX BASE, STRAN P# 070519-11AX.						
2	670-521147-4	EA	\$2,932.81	\$5,865.62	MECHANISM, GATE MODEL S40 WITH CONTACT HEATER, COMPLETE W/RELAY STRAN # 074000-W00090						
4	670-001347-4	EA	\$57.98	\$231.90	PACKAGE, HARDWARE SIGN 5 IN MOUNTING, SERRMI A1250-5, HARMON @200965-000, OR						

Exh B-5, p 5

Location: KANKAKEE IL S&E Proj. No.: 04.0483 AFE No.: F01952 Drawing No.: 31231005 Page 3/4
 Store No.: 06978 P.O. Number: Date Required: Date Shipped: Vendor: Safetran Systems Corp.

Qty.	Class-Item-CD	UI	Price per Item	Total Price	Item Description	Quantity Shipped	Quantity Installed	Quantity Returned (Credit)	Special Instructions
1	255-646807-4	EA	\$9.49	\$9.49	PADLOCK, SAFETRAN PART NO. 030399-29X SCREW TYPE FOR CIR CONTROLLER AND BTY. BOX				
1	670-514605-4	EA	\$8.43	\$8.43	PINNACLE, W/C SECT 1-11, 4"x5" REF K1 110-8 OR SAFETRAN NO. @035045-503X				
1	165-902002-4	EA	\$308.00	\$308.00	PROTECTOR, SURGE 120/240VAC, ERKO P/N EPD120/240TDFL				
4	465-002899-4	EA	\$20.88	\$83.51	REEL, CABLE DISPOSABLE FOR CROSSING SIGNAL PACKAGES				
2	435-805560-4	EA	\$6.25	\$12.50	SAND, 25LB BAG FOR CABLE ENTRANCE INTO THE SHELTER				
1	670-391911-4	EA	\$5,329.57	\$5,329.57	SEARI AUTOMATED INSPECTOR SYSTEM KIT, w/ 1- IL0D, 1-BSX, 2-GTS, 2-MTSS, 1-GFT, 1-VHFC, 2-RECORDER INTERFACE MODULE, 1- ECHOLON CONNECTOR				
1	670-281280-4	EA	\$7,006.00	\$7,006.00	SHELTER BARE 6X6, ALUMN, FARADAY, W/CABLE CHUTES BEHIND TERMINAL BOARD, W/GEN. CONN. W/ADJUSTABLE PIERS, SAFETRAN P/N 058400-66-78A				
2	670-586967-4	EA	\$34.74	\$69.49	SHUNT COVER W/LAG SCREWS, 19"X19", SERRMI #40271, ORDER 1 PER SHUNT				
2	670-688850-4	EA	\$370.27	\$740.53	SHUNT, MULTI-FREQ. #62775-3497 SAFETRAN NARROW BAND				
2	670-806648-4	EA	\$56.42	\$112.84	SIGN, X-BUCK, LESS HARDWARE, SAFETRAN 035200-X CR 02-490546				
2	670-751511-4	EA	\$35.58	\$71.17	SIGN, "1" TRACK, LESS HARDWARE SAFETRAN# 035207-1X				
2	670-006438-4	EA	\$10.54	\$21.08	TAPE, 4" X 96" REFLECTIVE APPLY TO BACK OF X-BUCK SIGN, ONLY IN IA, IN, IL, AL. 035200-555X				
1	670-330382-4	RL	\$10.75	\$10.75	TAPE, THOR 3" DURATEC, ORANGE 1000' LENGTHS. "WARNING STOP DIGGING"				

APPROVED BY STATE APPROVED BY RAILROAD CAR NUMBER SEAL NUMBER

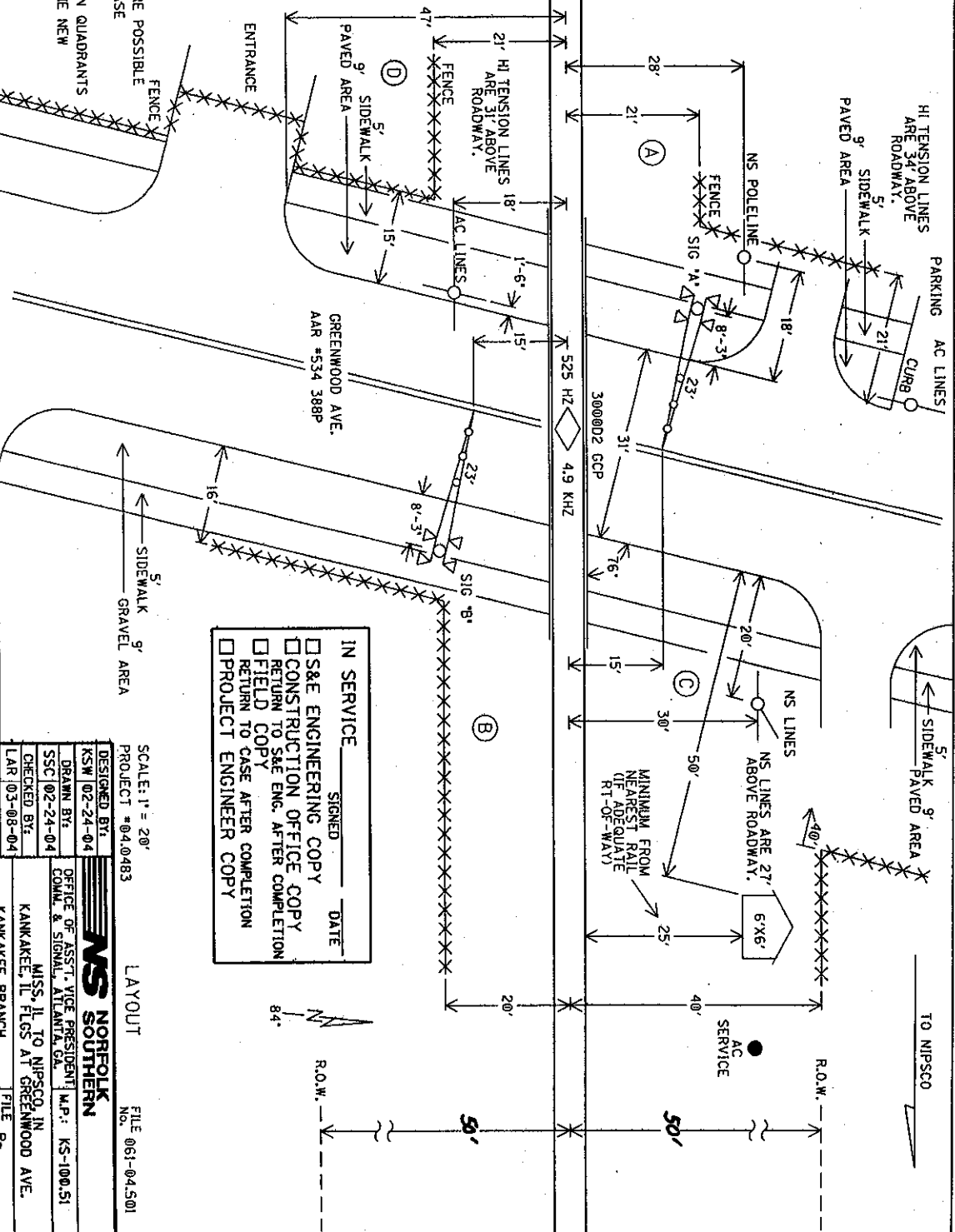
Ex B-5, P6

Location: KANKAKEE		IL		S&E Proj. No.: 04.0483		AFE No.: F01952		Drawing No.: 31231005		Page 4/4	
Store No.: 06978		P.O. Number:		Date Required:		Date Shipped:		Vendor: Safetran Systems Corp.			
Qty.	Class-Item-CD	UI	Price per Item	Total Price	Item Description	Quantity Shipped	Quantity Date	Installed Date	Returned (Credit)	Special Instructions	
1	670-258957-4	EA	\$25,580.50	\$25,580.50	WIRED RACK, 6X6 FARADAY, 20AMP SINGLE TRK SSCCIIIA, GCP3000D2, 2 CRAGG CHARGER, 2 RELAY RACKS, SAFTRAN P/N 20A 1TRK, USE WITH I/S 670-281280-4 W/CABLE CHUTES BEHIND THE FARADAY SHIELD						
				Total Material		\$65,140.46					

APPROVED BY STATE	APPROVED BY RAILROAD	CAR NUMBER	SEAL NUMBER
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TO NIPSCO

APPROACH LENGTHS ALLOW FOR:	
TIME IN SECONDS	CWT
STANDARD MUTED MIN. TIME	E.B./W.B. APPROACH
DESIGNED WARNING TIME	20
EQUIPMENT RESPONSE TIME	30
TOTAL TIME	5
MAX. SPEED (M.P.H.)	35
APPROACH DISTANCE (FEET)	25
	1286



1. MAX. TRAIN SPEED 25 M.P.H.
2. LATITUDE N 41° 07' 48" LONGITUDE W 87° 51' 16"
ELEVATION 780'
3. SIGNAL "A" TO HAVE BELL.
4. LOCATE U/G UTILITIES & CABLE BEFORE DIGGING.
5. CROSSING LOCATED IN KANKAKEE COUNTY.
6. NEAREST STREET ADDRESS IS
840 N. GREENWOOD AVE.
7. NEAREST INTERSECTING STREET IS
SR-50
8. DISTANCE TO NEAREST INTERSECTING
STREET IS 215. FT.
9. THE AC LINES LOCATED IN QUADRANTS "A" & "B" ARE POSSIBLE
OBSTRUCTIONS AND MAY NEED TO BE RAISED. PLEASE
CONTACT COMED AT 866-639-3532.
10. CITY/STATE TO MODIFY/REPAIR THE SIDEWALKS IN QUADRANTS
"A" AND "B" TO ACCOMMODATE THE PLACEMENT OF THE NEW
SIGNS IN ACCORDANCE WITH MUTED STANDARDS.
- (A) (B) (C) (D) = QUADRANT MARKERS
- ENTRANCE
- PAVED AREA
- 9'

Ⓐ Ⓑ Ⓒ Ⓓ = QUADRANT MARKERS

SCALE: 1" = 20'		FILE 061-04.501	
PROJECT #04.00483		LAYOUT	
DESIGNED BY: KSW 02-24-04		NORFOLK SOUTHERN	
DRAWN BY: SSC 02-24-04		OFFICE OF ASST. VICE PRESIDENT CONK. & STRONG, ATLANTA, GA	
CHECKED BY: LAR 03-08-04		MISS. IL TO NIPSCO, IN KANKAKEE, IL FLOES AT GREENWOOD AVE.	
IN SERVICE		KANKAKEE BRANCH	
CADD OR DWG. NO.		FILE R- SHEET 1 of 19	
31231005.01			

IN SERVICE _____ SIGNED _____ DATE _____

☐ S&E ENGINEERING COPY

☐ CONSTRUCTION OFFICE COPY

☐ RETURN TO S&E ENG. AFTER COMPLETION

☐ FIELD COPY

☐ RETURN TO CASE AFTER COMPLETION

☐ PROJECT ENGINEER COPY

Norfolk Southern

LAYOUT

FILE No. 061-04.501

S. J. VICE PRESIDENT AL, ATLANTA, GA.	M.P.: K5-100.51
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MISS. IL TO NIPSCO, IN
EE, IL FLGS AT GREENWOOD AVE.

EE BRANCH	FILE R- No.
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SHEET 1 of 19
NO. 2231005.01